

(19) World Intellectual Property
Organization
International Bureau



30 MAR 2005

(43) International Publication Date
8 April 2004 (08.04.2004)

PCT

(10) International Publication Number
WO 2004/030354 A1

(51) International Patent Classification⁷: H04N 5/74

(21) International Application Number:
PCT/KR2003/001985

(22) International Filing Date:
29 September 2003 (29.09.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2002-0059223
30 September 2002 (30.09.2002) KR

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

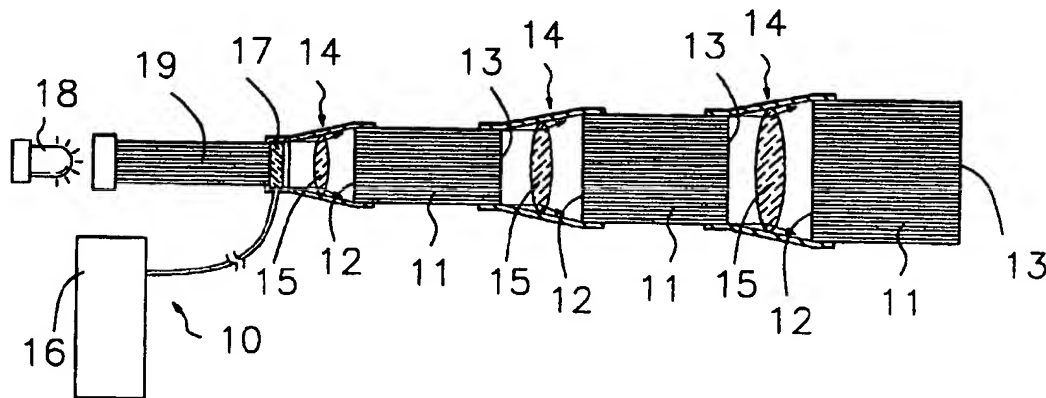
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(71) Applicant and
(72) Inventor: Ko, Jung Chan [KR/KR]; 136-201ho, Dongseorichvilla, 409 Sinlim-dong, Gwanak-gu, Seoul 151-867 (KR).

(74) Agent: LEE, Jae In; 302ho, Mijin B/D, 838-11 Yeoksam-dong, Kangnam-Ku, Seoul 135-080 (KR).

(54) Title: LARGE-SCALE IMAGE DISPLAY APPARATUS USING OPTICAL FIBER



(57) **Abstract:** The present invention discloses an image display apparatus using optical fiber in which moving images projected from a projector can be transferred to a screen through an optical fiber bundle with a high-definition image quality. An object of the present invention is to improve message transfer effect of various information pieces such as advertisement, by employing a connector which can selectively control a magnification of an image to be displayed while decreasing the sizes of a condensing member or a liquid crystal panel. In order to achieve the above object, a large-scale image display apparatus using optical fiber, comprising a condensing member for condensing light to be emitted from an illuminating device (18) and sending the light to an image receiving surface of an optical fiber bundle, and an image display device for inputting an image to the image receiving surface of the optical fiber bundle, is provided, where the large-scale image display apparatus according to the present invention is characterized by comprising: a plurality of optical fiber bundles having sectional areas different from each other; and a connector for connecting the plurality of optical fiber bundles and enabling magnification controls of a first lens and a second lens provided at the inside thereof.